



# UNITED STATES PATENT AND TRADEMARK OFFICE

A

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,119	03/11/2004	Masami Maruyama	MARU3003/EM	4679
23364	7590	02/21/2006	EXAMINER	
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314			NASRI, JAVAID H	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 02/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/797,119	<b>Applicant(s)</b> MARUYAMA ET AL.	
	<b>Examiner</b> Javaid Nasri	<b>Art Unit</b> 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07 February 2006.
- 2a) ☐ This action is **FINAL**.      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 March 2004 and 08 August 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)     | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date. _____  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Request for Continued Examination (RCE)*

1. The request filed on 2/7/2006 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/797,119 is acceptable and a RCE has been established. An action on the RCE follows.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by admitted prior art figures 11 and 12.

The admitted prior art figures 11 and 12, discloses, **for claim 1**, a resin mold body (5) and press-fitting pins (3) buried in the resin mold body and arranged to be press-fitted into conductive through-holes in a printed board in order to connect a cable to the through- holes, wherein soldered portions (34) for fixing conductive lines (1, 2) protruding from connecting ends of the cable are formed at base ends of the press-fitting pins, the soldered portions form notch portions (53, 63, holes are read as notched, see note below) at edge portions of the press-fitting pins, the notch portions facing axial insertion directions of said conductive lines and (see figure 11) defining axial insertion paths such that at least one of the conductive lines of the connecting ends

of the cable is inserted straight into a respective one of the notch portions (see figure 11), the at least one conductive lines fills the respective one of the notch portions to an appropriate thickness (any thickness can be an appropriate thickness, since thickness is not defined in the claim) and is coplanar with the press-fitting pins (depends which parts are considered), and the soldered portions are buried inside the resin mold body, **for claims 2, 7 and 12**, the conductive lines buried inside the resin mold body are single signal lines or a signal line (2) and a shield line (1), and at least the shield line is fixed to each of the press-fitting pins in the soldered portions (34), **for claims 3, 8 and 13**, in the notch portions of the soldered portions for fixing the shield line of the cable, the edge portions thereof are cut out in the same direction as twisted shield lines, **for claims 4, 9 and 14**, the soldered portions for fixing the signal line of the cable to the press-fitting pins are soldered in such a manner that the edge portions thereof are cut out the same direction as the twisted shield lines, the signal line is inserted into the notch portion and the notch portions are filled with the signal line to an appropriate thickness, **for claims 5, 10 and 15**, the cable is a one-core coaxial cable, a plurality of the press-fitting pins (3) is provided parallel to each other, said press-fitting pins being supported by a supporting frame and spaced from each other so as to be separable from an end opposite to the base end, and the shield line and the signal line being inserted into the notch portion to be soldered in each of the press-fitting pins that is supported by the supporting frame, **for claim 6**, a resin mold body (5) and press-fitting pins (3) buried in the resin mold body and arranged to be press-fitted into conductive through-holes in a printed board in order to connect a cable to the through holes; wherein soldered portion (34) for fixing conductive lines (1, 2) protruding from connecting ends of the cable are formed at base ends of the press-fitting pins, the soldered portions form notch portion (53, 63,

Art Unit: 2839

holes are read as notched, see note below) at edge portions of the press-fitting pins, the notch portion facing said conductive lines (see figure 11) such that at least one of the conductive lines of the connecting ends of the cable is inserted straight into a respective one of the notch portions (see figure 11), the at least one conductive lines fills the respective one of the notch portions to an appropriate thickness and is coplanar with the press-fitting pins (depends which parts are considered), and the soldered portion are buried inside the resin mold body, **for claim 11**, a resin mold body (5) and press-fitting pins (3) buried in the resin mold body and arranged to be press-fitted into conductive through-holes in a printed board in order to connect a cable to the through-holes, wherein soldered portions (34) for fixing conductive lines protruding from connecting ends of the cable are formed at base ends of the press-fitting pins, the soldered portion of each press-fitted pin having a notch portion (53, 63, holes are read as notched, see note below) at an edge portion of the press-fitting pin, the notch portion facing an axial insertion direction of one of said conductive lines and defining an axial insertion path such that at least one of the conductive lines of the connecting ends of the cable is inserted straight into a respective one of the notch portions, the at least one conductive line fills the respective one of the notch portions to an appropriate thickness and is coplanar with the press-fitting pins (depends which parts are considered), and the soldered portions are buried inside the resin mold body; wherein at least one of notch portions is angled (see figure 11) with respect to said cable.

Note: USPTO interprets claims, giving claims their "broadest reasonable interpretation."

(See, e.g., *In re Morris*, 127 F.3d 1048, 1054-55 (Fed. Cir. 1997)).

***Response to Arguments***

4. Applicant's arguments filed 2/7/2006 have been fully considered but they are not persuasive.

Regarding applicant's comment:

- a) The conductive lines do not extend into notches (instead, they are bent to fit through holes). It should be noted that the holes 53 and 63 are interpreted as notches and claims 1, 6 and 11, does not disclose that the conductive lines cannot be bent. See note below.
- b) The conductive lines do not extend straight into the notches (as opposed to being bent). It should be noted that claims 1, 6 and 11, does not disclose that the conductive lines cannot be bent. See note below.
- c) The conductive lines and pins are not coplanar (instead, the conductive lines of Figs. 11 and 12 must be bent out of the plane of the pins in order to extend through the holes). It should be noted that the conductive lines and pins are coplanar depends which parts of the conductive lines and the pins are considered, see note below).

Note: USPTO interprets claims, giving claims their "broadest reasonable interpretation."

(See, e.g., *In re Morris*, 127 F.3d 1048, 1054-55 (Fed. Cir. 1997)).


**Contact**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javaid Nasri whose telephone number is 571 272 2095. The examiner can normally be reached on Monday to Friday.

Art Unit: 2839

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C. Patel can be reached on 571 272 2800 ext 39. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Javaid Nasri  
Primary Examiner  
Art Unit 2839

JN/

Jhn

February 16, 2006